

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Metro Machine Corporation

Facility Name: Metro Machine Corporation

Facility Location: 200 Ligon Street
Norfolk, Virginia

Registration Number: 60134

Permit Number: VA60134

Permit Number: VA-60246

October 7, 2002
Effective Date

October 7, 2007
Expiration Date

Robert G. Burnley
Director, Department of Environmental Quality

October 7, 2002
Signature Date

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I. Facility Information

Permittee

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Norfolk, Virginia 23501

Responsible Official

Kenneth D. Newman
Executive Vice President

Facility

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Contact Person

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AIRS Identification Number: 51-710-0034

Facility Description: SIC Code 3731 – Ship Repair and Conversion

Several processes occur at the facility including the following: abrasive blasting and applying marine coatings; includes boilers producing steam for use onboard vessels while docked, generators, fire pumps, cranes, portable welders, fork lifts, portable heaters, electroplating, waste distillation, wood working, paint mixing, air conditioner maintenance, degreasing, use of adhesives, storage tanks and containers, gasoline and diesel fuel loading pumps, and an oil/water separator and treatment system. Alternative operating scenarios involve the use of the Compliant All Position Enclosure (CAPE) system for use with noncompliant or compliant coatings including a barge with a generator, compressors, blowers, a regenerative thermal oxidizer and a cartridge dust collector system. Two dry docks exist at the facility: the Old Dominion and the SPEEDE.

II. Emission Units

Equipment to be operated consists of:

Emission Unit Id.	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD Id.	Pollutant Controlled	Applicable Permit Date
1	Kewanee Boiler H35-750-G02 Natural gas / #2 fuel oil fired	32.0 mmBtu/hr				8/1/1984, amended 4/23/1986
2	Kewanee Boiler H3S500-G Natural gas / #2 fuel oil fired	20.9 mmBtu/hr				1/3/1986
3	Dry Dock Boiler #2 fuel oil fired	6.7 mmBtu/hr				
4	CAPE Barge Caterpillar Diesel Generator – Model D35086 DITA, 8 cylinders, 4 cycle and turbocharged with catalytic converter Diesel fuel fired	1,000 HP output				11/13/2000
5, 6, 7	#1, #2, and #3 CAPE Barge Caterpillar Diesel Compressor – Model 3406 DITA, 6 cylinders, 4 cycle with catalytic converter Diesel fuel fired	440 HP output, each				11/13/2000
8, 9	#1 and #2 CAPE Barge Caterpillar Diesel Blower – Model 3116 DITA, 6 cylinders, 4 cycle with catalytic converter Diesel fuel fired	175 HP output, each				11/13/2000
10	Dry Dock Abrasive Blasting	1,000 sq. ft/hr (8 operators)	Containment Screens	1	PM10	
10	Dry Dock Abrasive Blasting using CAPE Alternative Scenario		Torit Cartridge Dust Collector	7	PM10	
17	Dry Dock Underwater Hull Airless Spray Painting	42 gallons/hr (6 painters)	Containment Screens	1	PM10	
18	Dry Dock Freeboard Airless Spray Painting	42 gallons/hr (6 painters)	Containment Screens	1	PM10	

Emission Unit Id.	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD Id.	Pollutant Controlled	Applicable Permit Date
17, 18	Dry Dock Painting using CAPE Alternative Scenario		Torit Cartridge Dust Collector	7	PM10, Inorganic HAPs	
17, 18	Dry Dock Painting using CAPE Alternative Scenario		Durr Regenerative Thermal Oxidizer	8	PM10, VOCs, VOHAPs	
19	Dry Dock Top Side / Interior Hand Roll / Brush and Airless Spray Painting	7 gallons/hr (2 painters)	Containment Screens when airless spray guns are used	1	PM10	
20	Dry Dock Non-Skid / Deck Hand Roll / Brush and Airless Spray Painting	7 gallons/hr (2 painters)	Containment Screens when airless spray guns are used	1	PM10	
21	Pier Side Interior / Top Side Hand Roll / Brush and Airless Spray Painting	7 gallons/hr (2 painters)	Containment Screens when airless spray guns are used	1	PM10	
22	Production Shop and Yard Hand Roll / Brush Painting	3 gallons/hr (2 painters)				
23	Paint Shop Priming – 60% Hand Roll / Brush and 40% Airless Spray Painting	7 gallons/hr (2 painters)				
24	Maintenance Shop Degreaser	20 gallons capacity	Cover for degreaser and 15-second parts draining	9	VOCs	
25	Outside Machine Shop Degreasers (2)	40 gallons capacity each	Cover for degreaser and 15-second parts draining	10	VOCs	
26	Compressor / Fire Pump Maintenance Area Degreaser	15 gallons capacity	Cover for degreaser and 15-second parts draining	11	VOCs	
27	Inside Machine Shop Degreasers (2)	20 and 40 gallons capacity	Cover for degreaser and 15-second parts draining	12	VOCs	
28	SPEEDE Dry Dock Painting					06/26/2002
98, 99	SPEEDE Dry Dock Generators (2)	2,514 HP, each				06/26/2002

*The Size/Rated capacity and PCD information is provided for informational purposes only, and is not an applicable requirement.

III. Kewanee Boiler H35-750-G02 Requirements (emission unit id. 1)

A. Limitations

1. The Kewanee Boiler (emission unit 1) shall consume no more than 95 million cubic feet of gas or 710,000 gallons of No. 2 oil per year, calculated monthly as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Specific Condition 4 of NSR permit issued August 1, 1984 and amended April 23, 1986)
2. Emissions from the operation of the boiler shall not exceed the limitations specified below:

Particulate Matter (PM10)	0.02 lb/mmBtu	0.5 lbs/hr	0.8 tons/yr
Sulfur Dioxide	0.6 lb/mmBtu	19.1 lbs/hr	30.2 tons/yr

The annual limit shall be determined as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Specific Condition 5 of NSR permit issued August 1, 1984 and amended April 23, 1986)
3. The approved fuels for the boiler (emission unit 1) are natural gas or No. 2 fuel oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Specific Condition 6 of NSR permit issued August 1, 1984 and amended April 23, 1986)

B. Monitoring and Recordkeeping

1. The permittee shall perform visual evaluations of the Kewanee boiler stack (emission unit 1) once each calendar month during normal operating conditions and daylight hours for compliance with the opacity standard. If, during any calendar month, both No. 2 fuel and natural gas are combusted, a visual evaluation shall be obtained while burning No. 2 fuel. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record visual evaluations, corrective actions and visible emissions evaluations in a logbook. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to
 - a. The annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) for the Kewanee boiler (emission unit 1). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.

- b. Records of visual evaluations and visible emissions evaluations conducted, and any corrective action taken.
- c. DEQ-approved, pollutant specific emission factors and equations used to determine compliance with the emission limits.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-20-180 J, 9 VAC 5-50-50 and 9 VAC 5-80-110)

IV. Kewanee Boiler H3S500-G Requirements (emission unit id. 2)

A. Limitations

1. The Kewanee Boiler (emission unit 2) shall consume no more than 1,200,000 gallons of No. 2 oil or the natural gas equivalent per year. The annual throughput shall be calculated as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Specific Condition 4 of NSR permit issued January 3, 1986)
2. Emissions from the operation of the boiler shall not exceed the limitations specified below:

Particulate Matter (PM10)	0.1 lb/mmBtu	0.4 lbs/hr	1.2 tons/yr
Sulfur Dioxide	0.6 lb/mmBtu	12.7 lbs/hr	42.6 tons/yr

The annual limit shall be determined as the sum of each consecutive 12 month period.
(9 VAC 5-80-110 and Specific Condition 5 of NSR permit issued January 3, 1986)
3. The approved fuel for the boiler (emission unit 2) is natural gas or No. 2 fuel oil. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Specific Condition 6 of NSR permit issued January 3, 1986)

B. Monitoring and Recordkeeping

1. The permittee shall perform visual evaluations of the Kewanee boiler stack (emission unit 2) once each calendar month during normal operating conditions and daylight hours for compliance with the opacity standard. If, during any calendar month, both No. 2 fuel and natural gas are combusted, a visual evaluation shall be obtained while burning No. 2 fuel. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record visual evaluations, corrective actions and visible emissions evaluations in a logbook. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. The annual throughput of natural gas (in million cubic feet) and distillate oil (in 1000 gallons) for the Kewanee boiler (emission unit 2). The annual throughput shall be calculated as the sum of each consecutive twelve (12) month period.

- b. Records of visual evaluations and visible emissions evaluations conducted, and any corrective action taken.
- c. DEQ-approved, pollutant specific emission factors and equations used to determine compliance with the emission limits.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and General Condition 5 of NSR permit issued January 3, 1986)

V. Dry Dock Boiler Requirements (emission unit id. 3)

A. Limitations

1. Emissions from the Dry Dock Boiler shall not exceed the following emission ratio:

Particulate Emissions	0.67 lbs/million Btu input
Particulate Emissions	4.5 lbs/hr

The emission ratio in lbs/million Btu input shall be determined by the following equation: $E = 1.0906H^{-0.2594}$, where H is the total capacity in millions of Btu/hr. The emission rate in lbs/hr shall be the product of the emission unit rated capacity and the emission ratio.
(9 VAC 5-40-900 A and 9 VAC 5-80-110)

2. Emissions from the Dry Dock Boiler shall not exceed the following:

Sulfur Dioxide Emissions	17.7 lbs/hr
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The emission limit shall be determined by the following equation: $S = 2.64 K$, where S = allowable emission of sulfur dioxide expressed in pounds per hour, and K = heat input at total capacity expressed in Btu x 10^6 per hour.
(9 VAC 5-40-930 A and 9 VAC 5-80-110)

B. Monitoring and Recordkeeping

1. The permittee shall perform visual evaluations of the Dry Dock boiler stack (emission unit 3) once each calendar month during normal operating conditions and daylight hours for compliance with the opacity standard. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record visual evaluations, corrective actions and visible emissions evaluations in a logbook. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent five (5) year period.
(9 VAC 5-80-110)
2. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. The type of fuel combusted in the boiler;
 - b. Records of visual evaluations, visible emissions evaluations and any corrective action taken; and,

- c. DEQ-approved, pollutant-specific emission factors and equations used to show compliance with the emission limits.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110)

VI. Internal Combustion Units (emission units id. 4, 5, 6, 7, 8 and 9)

These conditions apply to the CAPE Barge system, including the Caterpillar diesel generator, Caterpillar diesel compressors, and Caterpillar diesel blowers.

A. Limitations

1. Particulate Matter emissions, Volatile Organic Compound emissions, and Carbon Monoxide emissions from the CAPE system diesel engines shall be controlled by catalytic purifiers. The catalytic purifiers shall be provided with adequate access for inspection and shall be in operation when the CAPE system diesel engines are operating.
(9 VAC 5-80-110 and Condition 2 of NSR permit issued November 13, 2000)
2. The approved fuel for the CAPE system diesel engines is diesel fuel (distillate oil). A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 3 of NSR permit issued November 13, 2000)
3. The diesel fuel (distillate oil) shall meet the specification below:

DISTILLATE OIL which meets ASTM specifications for numbers 1 or 2 fuel oil
Maximum sulfur content per shipment: 0.05%

(9 VAC 5-80-110 and Condition 4 of NSR permit issued November 13, 2000)
4. The CAPE system diesel engines shall not operate more than the following number of hours per year, calculated monthly as the sum of each consecutive 12 month period:

1,087.8 HP diesel generator engine	500 hours/year
175.0 HP diesel blower engines	9,140 hours/year, combined
440.0 HP diesel compressor engines	13,710 hours/year, combined

(9 VAC 5-80-110 and Condition 6 of NSR permit issued November 13, 2000)
5. Diesel engine emissions shall be controlled by proper operation and maintenance of combustion and air pollution control equipment. Engine operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum.
(9 VAC 5-80-110 and Condition 7 of NSR permit issued November 12, 2000)

6. Emissions from the operation of the diesel engines shall not exceed the limits specified below:

1,087.8 HP diesel generator engine:

Nitrogen Oxides (as NO ₂)	43.5 lbs/hr
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175.0 HP diesel blower engines, combined:

PM-10	0.3 lbs/hr
Nitrogen Oxides (as NO ₂)	10.9 lbs/hr
Volatile Organic Compounds	0.2 lbs/hr
Carbon Monoxide	0.4 lbs/hr

440.0 HP diesel compressor engines, combined:

PM-10	0.9 lbs/hr
Sulfur Dioxide	0.5 lbs/hr
Nitrogen Oxides (as NO ₂)	27.7 lbs/hr
Volatile Organic Compounds	0.2 lbs/hr
Carbon Monoxide	0.6 lbs/hr

All diesel engines, combined:

PM-10	2.7 tons/yr
Sulfur Dioxide	1.7 tons/yr
Nitrogen Oxides (as NO ₂)	99.0 tons/yr
Volatile Organic Compounds	1.0 tons/yr
Carbon Monoxide	2.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition Numbers VI.A.2, 3, 4, and 7.

(9 VAC 5-80-110 and Condition 8 of NSR permit issued November 13, 2000)

7. Visible emissions from each CAPE system diesel engine shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.

(9 VAC 5-80-110 and Condition 9 of NSR permit issued November 13, 2000)

8. The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-80-110 and Condition 15 of NSR permit issued November 13, 2000)

B. Monitoring and Recordkeeping

1. The permittee shall perform visual evaluations of each engine stack (emission units 4, 5, 6, 7, 8 and 9) once each calendar month during normal operating conditions and daylight hours for compliance with the opacity standard. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record visual evaluations, corrective actions and visible emissions evaluations in a logbook. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent five (5) year period.

(9 VAC 5-80-110)

2. The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel (distillate oil). Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the distillate oil was received;
 - c. The volume of distillate oil delivered in the shipment;
 - d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil, and;
 - e. A statement that the sulfur content of the fuel is less than or equal to 0.05%.

(9 VAC 5-80-110 and Condition 5 of NSR permit issued November 13, 2000)

3. The permittee shall maintain records of all emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Annual hours of operation for each engine type, calculated monthly as the sum of each consecutive 12 month period.
 - b. All fuel supplier certifications.
 - c. Records of visible evaluations, visible emissions evaluations and any corrective action taken for visible emissions.
 - d. DEQ-approved, pollutant specific emission factors and equations used to determine compliance with the emission limits.

These records shall be available at the facility for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110 and Condition 10 of NSR permit issued November 13, 2000)

4. The permittee shall maintain records of required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the diesel engines and air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept at the facility and made available for inspection by the DEQ.

(9 VAC 5-80-110 and Condition 7 of NSR permit issued November 13, 2000)

VII. Painting Operations When CAPE System Alternate Means of Limiting Emissions Is Not In Use (emission units id. 17, 18, 19, 20, 21, 22, 23, and 28)

A. Limitations

1. VOC/VOHAP emissions from the painting operations shall be controlled by utilizing compliant coatings.
(9 VAC 5-80-110 and Condition 3 of NSR/NESHAP permit issued June 26, 2002)
2. Each shipbuilding and ship repair operation is to be operated in compliance with the general provisions of 40 CFR part 63 subpart A.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.780, and Condition 12 of NSR/NESHAP permit issued June 26, 2002)
3. The provisions of 40 CFR part 63 subpart II do not apply to "low-usage exempt" coatings used in volumes of less than 52.8 gallons per year for each coating, and 264 gallons per year of all such coatings. Coatings exempt under this condition shall be clearly labeled as "low-usage exempt".
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.781(b), and Condition 13 of NSR/NESHAP permit issued June 26, 2002)
4. The provisions of 40 CFR part 63 subpart A pertaining to startups, shutdowns, and malfunctions and continuous monitoring do not apply unless an add-on control system is used to comply with 40 CFR part 63 subpart II.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.781(d), and Condition 14 of NSR/NESHAP permit issued June 26, 2002)
5. No owner or operator shall cause or allow the application of any coating to a ship with an as-applied Volatile Organic Hazardous Air Pollutant (VOHAP) content exceeding the applicable limit given in Table 2 of 40 CFR part 63 subpart II.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.783(a), and Condition 15 of NSR/NESHAP permit issued June 26, 2002)
6. Each owner or operator shall ensure that:
 - a. All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
 - b. All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.783(b), and Condition 16 of NSR/NESHAP permit issued June 26, 2002)

7. Emissions from the painting operations on the SPEEDE dry dock (emission unit id. 28), only, shall not exceed the limits specified below:

Volatile Organic Compounds 97.0 tons/yr

VOHAPS (Individual or Combined) 97.0 tons/yr

(9 VAC 5-80-110 and Condition 22 of NSR/NESHAP permit issued June 26, 2002)

B. Compliance Procedures

1. For each batch of coating that is received, the owner or operator shall:
 - a. Determine the coating category and the applicable VOHAP limit as specified in 40 CFR 63.783(a).
 - b. Certify the as-supplied VOC content of the batch of coating.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.785(a), and Condition 17 of NSR/NESHAP permit issued June 26, 2002)
2. In lieu of testing each batch of coating, as applied, the owner or operator may determine compliance with the VOHAP limits using any combination of the procedures described in 40 CFR 63.785 (c)(1), (c)(2), (c)(3), and (c)(4). The procedure used for each coating shall be determined and documented prior to application.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.785(b)(1), and Condition 18 of NSR/NESHAP permit issued June 26, 2002)
3. The results of any compliance demonstration using Method 24 shall take precedence over the results using the procedures in 40 CFR 63.785 (c)(1), (c)(2), or (c)(3).
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.785(b)(2), and Condition 19 of NSR/NESHAP permit issued June 26, 2002)
4. The results of any compliance demonstration conducted using an approved test method to determine VOHAP content shall take precedence over the results using the procedures in 40 CFR 63.785(c)(4).
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.785(b)(3), and Condition 20 of NSR/NESHAP permit issued June 26, 2002)

C. Monitoring, Recordkeeping and Reporting Requirements

1. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to monthly and annual emissions calculations to verify compliance with the Volatile Organic Compound, Individual, and Total HAP emission limitations in Condition VII.A.7. Annual emissions shall be calculated monthly as the sum of each consecutive 12-month period. This condition applies only to emission unit id. 28 (painting operations on the SPEEDE dry dock).
(9 VAC 5-80-110 and Condition 24.a. of NSR/NESHAP permit issued June 26, 2002)
2. For each compliance procedure used (40 CFR 63.785(c)(1), (2), (3), and (4)), the permittee shall maintain records to demonstrate compliance with the chosen procedure.
(9 VAC 5-80-110, 40 CFR 63.785(c), and Condition 21 of NSR/NESHAP permit issued June 26, 2002)
3. Each owner or operator shall comply with the applicable recordkeeping and reporting requirements in 40 CFR 63.10(a), (b), (d), and (f).
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.788(a), and Condition 25 of NSR/NESHAP permit issued June 26, 2002)
4. Each owner or operator of a major source shipbuilding or ship repair facility having surface coating operations with less than 264 gallons annual marine coating usage shall record the total volume of coating applied at the source to ships. Such records shall be compiled monthly and maintained for a minimum of 5 years.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.788(b)(1), and Condition 26 of NSR/NESHAP permit issued June 26, 2002)
5. Each owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. At a minimum, these records shall include:
 - a. All documentation supporting initial notification;
 - b. A copy of the affected source's implementation plan;
 - c. The volume of each low-usage-exempt coating applied;
 - d. Identification of the coating used, their appropriate coating categories, and the applicable VOHAP limit;
 - e. Certification of the as-supplied VOC content of each batch of coating;
 - f. A determination of whether containers meet the standards as described in 40 CFR 63.783(b)(2); and

- g. The results of any Method 24 of Appendix A or 40 CFR Part 60 or approved VOHAP measurement test conducted on individual containers of coating, as applied.
 - h. Any additional information, as determined by the compliance procedure(s) described in 40 CFR 63.785(c) that the permittee followed.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.788 (b)(2), 40 CFR 63.788 (b)(3), and Condition 24.b. of NSR/NESHAP permit issued June 26, 2002)
6. If the owner or operator detects a violation of the standard specified in 40 CFR 63.783, the owner or operator shall, for the remainder of the reporting period during which the violation(s) occurred, include the information listed in 40 CFR 63.788 (b)(4) in the facility records.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.788 (b)(4), and Condition 27 of NSR/NESHAP permit issued June 26, 2002)
7. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR 63.784, each owner or operator of an affected source shall submit a report to the EPA Administrator and the DEQ Tidewater Regional Office for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to paragraphs (b)(2) through (3) of 40 CFR 63.788, except for that specified in paragraphs (b)(2)(i) through (ii), (b)(2)(v), (b)(3)(i)(A), (b)(3)(ii)(A), and (b)(3)(iii)(A). If a violation is detected, the source shall also report the information specified in paragraph (b)(4) of 40 CFR 63.788 for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source.
(9 VAC 5-60-100, 9 VAC 5-80-110, 40 CFR 63.788 (c), and Condition 28 of NSR/NESHAP permit issued June 26, 2002)

VIII. Painting Operations When CAPE System Alternate Means of Limiting Emissions Is In Use (emission units id. 17 and 18)

A. Limitations

When a non-complying paint is applied within the CAPE, the system must be operated at a minimum of 95 percent overall control efficiency. In addition, the CAPE must be operated at a vacuum equal to or greater than 0.013 mm Hg (0.007 in. of water) gauge, the value presented in EPA Method 204. The RTO must operate with an air flow between 284 and 397 standard m³/min (10,000 and 14,000 standard ft³/min), and a combustion temperature greater than 760°C (1400°F). In addition, the CAPE+RTO System must be operated for the required amount of time. Compliance with this condition shall be determined as outlined in EPA's approval of the CAPE System as an alternate method of limiting emissions, dated June 4, 1999. This approval is included in Section XVII of this permit.
(9 VAC 5-80-110 and 40 CFR 63.783(c))

IX. Abrasive Blasting Requirements (emission unit id. 10)

A. Limitations

1. Visible emissions from abrasive blasting shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity, as determined by EPA Method 22 (reference 40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-80-110)
2. At all times, including periods of startup, shutdown and malfunction, the abrasive blasting equipment and any associated air pollution control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 E and 9 VAC 5-80-110)

X. Degreaser Requirements (emission units id. 24, 25, 26 and 27)

A. Limitations

1. No owner or other person shall use or permit the use of any cold cleaner unless such cleaner is equipped with a control method that will remove, destroy or prevent the discharge into the atmosphere of at least 85% by weight of volatile organic compound emissions.
(9 VAC 5-40-3280 C.1 and 9 VAC 5-80-110)
2. Achievement of the emission standard shall be achieved by complying with the applicable methods and operating requirements in 9 VAC 5-40-3290 C.
(9 VAC 5-40-3290 C and 9 VAC 5-80-110)

XI. SPEEDE Dry Dock Generator Requirements (emission units id. 98 and 99)

A. Limitations

1. SO₂ emissions from the operation of the generators shall be controlled by utilizing low-sulfur fuel and limiting operations hours. This condition applies to emission unit id. 28 only.
(9 VAC 5-80-110 and Condition 3 of NSR/NESHAP permit issued June 26, 2002)
2. Each 2,514 HP diesel generator shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-110 and Condition 5 of NSR/NESHAP permit issued June 26, 2002)
3. The approved fuel for the SPEEDE dry dock generators is diesel fuel. A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 6 of NSR/NESHAP permit issued June 26, 2002)

4. The diesel fuel shall meet the specifications below:

DISTILLATE OIL which meets the ASTM specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.05%

(9 VAC 5-80-110 and Condition 7 of NSR/NESHAP permit issued June 26, 2002)

5. Emissions from the operation of the SPEEDE dry dock generators shall not exceed the limits specified below:

	<u>EACH</u>	<u>COMBINED</u>
Particulate Matter	1.8 lbs/hr	0.9 tons/yr
PM-10	1.5 lbs/hr	0.7 tons/yr
Sulfur Dioxide	1.0 lbs/hr	0.5 tons/yr
Nitrogen Oxides (as NO ₂)	60.3 lbs/hr	30.2 tons/yr
Carbon Monoxide	13.8 lbs/hr	7.0 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers XI.A.2, XI.A.3, XI.A.4, and XI.A.6.

(9 VAC 5-80-110 and Condition 9 of NSR/NESHAP permit issued June 26, 2002)

6. Visible emissions from the SPEEDE dry dock generators shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 10 of NSR/NESHAP permit issued June 26, 2002)
7. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect emissions:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Maintain an inventory of spare parts.
 - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training, and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110 and Condition 34 of NSR/NESHAP permit issued June 26, 2002)

B. Monitoring and Recordkeeping

1. The permittee shall perform visual evaluations of each generator stack once each calendar month during normal operating conditions and daylight hours for compliance with the opacity standard. If such periodic evaluations indicate any opacity condition, the permittee shall take appropriate action to correct the cause of the opacity. If such corrective action fails to correct the problem, the permittee shall conduct a visible emissions evaluation (VEE) utilizing EPA Method 9 (reference 40 CFR 60, Appendix A). The permittee shall record visual evaluations, corrective actions and visible emissions evaluations in a logbook. The logbook shall be kept at the facility and available for inspection by the DEQ for the most recent five (5) year period.

(9 VAC 5-80-110)

2. The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the diesel fuel was received;
- c. The volume of diesel fuel delivered in the shipment;
- d. A statement that the diesel fuel complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil; and,
- e. The sulfur content of the diesel fuel.

(9 VAC 5-80-110 and Condition 8 of NSR/NESHAP permit issued June 26, 2002)

3. The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:

- a. Annual hours of operation for each SPEEDE dry dock generator, calculated monthly as the sum of each consecutive 12-month period.
- b. All fuel supplier certifications.
- c. Scheduled and unscheduled maintenance, and operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 11 of NSR/NESHAP permit issued June 26, 2002)

XII. Facility-Wide Conditions

These conditions apply to the significant emission units listed in Section II of this permit.

A. Limitations

1. No owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-50-80 and 9 VAC 5-80-110)
2. The opacity standard shall apply at all times except during periods of startup, shutdown, and malfunction.
(9 VAC 5-50-20 A.3 and 9 VAC 5-80-110)
3. At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 E, 9 VAC 5-20-180 A and 9 VAC 5-80-110)
4. At all times, the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, or stored in open containers or handled in any other manner that would result in evaporation beyond that consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-110)
5. Upon request, the owner shall reduce the level of operation at the facility if the board determines that this is necessary to prevent a violation of any primary ambient air quality standard. Under worst case conditions, the board may order that the owner shut down the facility, if there is no other method of operation to avoid a violation of the primary ambient air quality standard. The board reserves the right to prescribe the method of determining if a facility will cause such a violation. In such cases, the facility shall not be returned to operation until it and the associated air pollution control equipment are able to operate without a violation of any primary ambient air quality standard.
(9 VAC 5-20-180 I and 9 VAC 5-80-110)

B. Testing

1. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110)
2. If testing to demonstrate compliance is conducted in addition to the monitoring specified in this permit, the permittee shall use the following methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
VOC	EPA Methods 18, 25, 25a
VOC Content	EPA Methods 24, 24a
NO _x	EPA Method 7
SO ₂	EPA Method 6
CO	EPA Method 10
PM-10	EPA Method 17
Visible Emission	EPA Method 9

XIII. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
11	Enclosed Bead Blaster in Outside Machine Shop	9 VAC 5-80-720 B	PM10	
12	Enclosed Bead Blaster in Boiler Shop	9 VAC 5-80-720 B	PM10	
13	Enclosed Bead Blaster in Compressor/Fire Pump Maintenance Area	9 VAC 5-80-720 B	PM10	
14	Enclosed Bead Blaster in Inside Machine Shop	9 VAC 5-80-720 B	PM10	
15	Enclosed Bead Blaster in Electric Shop	9 VAC 5-80-720 B	PM10	
16	Air Conditioner Maintenance	9 VAC 5-80-720 B	VOC	
28	Cape Barge Natural Gas/Propane Boiler	9 VAC 5-80-720 C		3.0 mmBtu/hr
29	Detroit Diesel 253 Emergency Generator	9 VAC 5-80-720 C		55 HP
30	Dry Dock Detroit Diesel 671 Fire Pump	9 VAC 5-80-720 C		235 HP
31	Wet Slip Detroit Diesel 671 Fire Pump	9 VAC 5-80-720 C		235 HP
32	Finger Pier Cummins Diesel 903 Fire Pump	9 VAC 5-80-720 C		240 HP
33	#1 P&H Diesel Truck Crane	9 VAC 5-80-720 A		125 HP
34	#2 Detroit Diesel Truck Crane	9 VAC 5-80-720 A		157 HP
35	#3 Detroit Diesel Truck Crane	9 VAC 5-80-720 A		165 HP
36	#4 Detroit Diesel Crawler Crane	9 VAC 5-80-720 A		264 HP
37	#3 Perkins Diesel Welder	9 VAC 5-80-720 A		49 HP
38	#4 Perkins Diesel Welder	9 VAC 5-80-720 A		55 HP
39	#5 Perkins Diesel Welder	9 VAC 5-80-720 A		49 HP
40	#8 Ford Gasoline Welder	9 VAC 5-80-720 A		75 HP
41	#10 Hobart Gasoline Welder	9 VAC 5-80-720 A		50 HP
42	#12 Perkins Diesel Welder	9 VAC 5-80-720 A		49 HP
43	#15 Perkins Diesel Welder	9 VAC 5-80-720 A		49 HP
44	#1 Nissan Propane Fork Lift	9 VAC 5-80-720 A		46 HP
45	#2 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
46	#3 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
47	#4 Nissan Propane Fork Lift	9 VAC 5-80-720 A		46 HP
48	#5 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
49	#6 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
50	#7 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
51	#8 Nissan Propane Fork Lift	9 VAC 5-80-720 A		46 HP
52	#9 Detroit Diesel Fork Lift	9 VAC 5-80-720 A		90 HP
53	#14 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
54	#15 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
55	#16 Nissan Propane Fork Lift	9 VAC 5-80-720 A		46 HP
56	#18 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
57	#20 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
58	#21 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
59	#22 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		78 HP
60	#23 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
61	#24 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		71 HP
62	#26 Chrysler Propane Fork Lift	9 VAC 5-80-720 A		78 HP
63	#29 Cummins Diesel Fork Lift	9 VAC 5-80-720 A		152 HP
64	Portable Kerosene Heaters	9 VAC 5-80-720 A		0.15 mmBtu/hr each
65	CAPE Barge Eclipse Burner for Regenerative Thermal Oxidizer	9 VAC 5-80-720 C		6.0 mmBtu/hr
66	Electroplating in Electric Shop	9 VAC 5-80-720 B	PM10, inorganic HAPs	
67	Distillation Unit in Hazardous Waste Storage Area	9 VAC 5-80-720 B	VOCs, VOHAPs	
68	Woodworking Operations in Carpenter Shop	9 VAC 5-80-720 B	PM10	
69	Paint Mixing in Paint Shop	9 VAC 5-80-720 B	VOCs, VOHAPs	
70	Welding Operations in Steel Shop and Pipe Shop	9 VAC 5-80-720 A		
71	Maintenance Shop Touch-Up Painting	9 VAC 5-80-720 B	VOCs, VOHAPs	
72	Covered Metro 88 Degreasers (2) in Tool Room (contains no solvents)	9 VAC 5-80-720 B	None	
73 – 77	Spray Can Degreasers, Cleaners, etc.	9 VAC 5-80-720 B	VOCs, VOHAPs	
78	Solvent, Oils, Hydraulic Fluids, and Antifreeze in Sealed 55-gallon Drums and Sealed Hazardous Waste Containers	9 VAC 5-80-720 A		

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
79	Solvents, Cleaners, Degreasers, Penetrants, and Lubricants in Spray Cans and Sealed 55-gallon drums in Tool Room	9 VAC 5-80-720 A		
80	Hazardous Waste in Sealed 55-gallon Drums in Hazardous Waste Storage Building	9 VAC 5-80-720 A		
81	Waste Oil Storage Tanks (2) in Hazardous Waste Storage Building and Portable Tankers in Yard	9 VAC 5-80-720 B	VOCs, VOHAPs	3,000 gallons each
82	Propane Storage Tank near Navy Paint Storage	9 VAC 5-80-720 B	VOCs	1,000 gallons
83	Underground Gasoline Storage Tank near Navy Paint Storage	9 VAC 5-80-720 B	VOCs, VOHAPs	10,000 gallons
84	Underground Diesel Fuel Storage Tank	9 VAC 5-80-720 A		
85	Portable Diesel (1 800-gallon, 1 500-gallon, 1 300-gallon, and 1 125-gallon) and Gasoline (125-gallon) Storage Containers in Yard	9 VAC 5-80-720 A		
86	Small Containers of Acetylene, Liquid Oxygen, Hydrogen, and Argon near Navy Paint Storage	9 VAC 5-80-720 A		
87	Navy Paint Storage Areas with 5-gallon Containers	9 VAC 5-80-720 A		
88	Varsol Storage Tank near Navy Paint Storage	9 VAC 5-80-720 B	VOCs, VOHAPs	300 gallons
89	Underground #2 Oil Storage Tanks (2) near Boiler Room	9 VAC 5-80-720 B	VOCs, VOHAPs	15,000 gallons each
90	Diesel Fuel Storage Tank in Compressor/Fire Pump Maintenance Area	9 VAC 5-80-720 B	VOCs, VOHAPs	500 gallons
91	Gasoline Loading Pumps	9 VAC 5-80-720 B	VOCs, VOHAPs	1,260 gallons/hr
92	Diesel Fuel Loading Pumps	9 VAC 5-80-720 A	VOCs, VOHAPs	840 gallons/hr
93	Oil/Water Separator and Treatment System Including Processing Tanks	9 VAC 5-80-720 B	VOCs, VOHAPs	

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XIV. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
<i>NONE IDENTIFIED</i>		

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

XV. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete renewal application to the Department consistent with 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal, but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied, and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant to section 9 VAC 5-80-80 D, the applicant fails to submit, by the deadline specified in writing by the Board, any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9 VAC 5-80-110 F)

3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ. Reports shall cover a period of six months. The reporting periods shall be from the first day of the first month to the last day of the sixth month. Reports shall be postmarked or delivered no later than 60 days following the end of the reporting period. The first reporting period shall commence on December 1, 2002. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

- a. The time period included in the report
- b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:

(1) Exceedance of emissions limitations or operational restrictions;

(2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,

(3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance with all terms and conditions of this permit including emission limitation standards or work practices for a period of twelve months. The report shall be postmarked or delivered no later than 60 days following the end of the twelve-month period. The reporting periods shall coincide with the monitoring reporting periods. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Tidewater Regional Office, within four daytime business hours of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XV.C.3. of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.

(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:
 - a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is potential of, a resulting emissions increase;
 - b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
 - c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emissions cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
 - d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
 - e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
 - f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);

- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.

- d. The permittee notified the board of the malfunction within two working days following the time when the emissions limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, telegraph, or any other method that allows the permittee to comply with the deadline. The notice fulfills the requirement of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)

XVI. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.

1. 9 VAC 5 Chapter 50, Article 2, Rule 5-2 and 9 VAC 5 Chapter 40, Article 2, Rule 4-2:
Standards for Odorous Emissions
2. 9 VAC 5 Chapter 50, Article 3, Rule 5-3 and 9 VAC 5 Chapter 40, Article 3, Rule 4-3:
Standards for Toxic Pollutants
3. Memorandum of Understanding between Metro Machine Corporation and the
Department of Environmental Quality dated February 12, 1990.

(9 VAC 5-80-110 N and 9 VAC 5-80-300)

XVII.EPA Approval for the CAPE+RTO System Alternate Means of Limiting Emissions

COMPLIANCE REPORTING FORMS

To: Air Compliance Manager
Department of Environmental Quality – Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

From: (Facility Name)

Registration No. _____

Re: TITLE V ANNUAL COMPLIANCE CERTIFICATION

Date:

Please find attached our Title V Annual Compliance Certification for the period from ____/____/____ to ____/____/____. It identifies each term or condition of the permit that is the basis of the certification. All deviations and periods of non-compliance for the period have been addressed in semi-annual monitoring reports that have either been previously submitted or are enclosed.

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

cc: Director, Air and Waste Division (Mail drop 3AP00)
United States Environmental Protection Agency -- Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(Annual Compliance Certifications are due 60 days following end of reporting period.)

To: Air Compliance Manager
Department of Environmental Quality – Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

From: (Facility Name)

Reg. No. _____

Re: PROMPT DEVIATION REPORT – Pursuant to Title V Permit

Date:

This confirms the deviation reported to the Regional Office at _____ o'clock on ____/____/____. The details are described below. The deviation may have caused excess emissions for more than one hour, consistent with specified averaging times. None of these deviations were related to a malfunction.

Start date & time:	End date & time:	Estimated Duration:
Deviation from which permit condition (<i>condition number and brief description</i>):		
Description of incident (<i>including emission unit affected</i>):		
Description of Monitoring Requirement for affected unit(s):		
Probable cause:		
Description of corrective measures taken (<i>demonstrating a timely & appropriate response</i>):		
Description of preventive measures taken:		

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

To: Air Compliance Manager
Department of Environmental Quality – Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

From: (Facility Name)

Reg. No. _____

Re: SEMI-ANNUAL MONITORING REPORT – Pursuant to Title V Permit

Date:

The following monitoring report is submitted as required by our Title V permit. For the purposes of this report, deviation means (1) exceedances of emission limits, as determined by such means as stack testing, continuous emission monitors, parametric monitoring and EPA Method 9 visible emission evaluations; (2) excursions from control device operating parameter requirements such as afterburner temperature, scrubber flow rate, baghouse pressure drop; (3) excursions from operational restrictions things such as throughput, fuel quality, and coating VOC and HAP content; and (4) failure to meet monitoring, record keeping or reporting requirements. The report addresses all data points, which are above a standard, limit etc, according to the averaging period, if any, specified in the permit. If no averaging period is specified in the permit, then any monitored reading is considered a deviation to be reported. Deviations are reported regardless of whether they may have caused excess emissions or whether they were the result of a malfunction.

The period covered by the report is from ____/____/____ to ____/____/____.

During the reporting period:

- ☐ No deviations from permit requirements occurred during this semi-annual reporting period. (We conducted all required monitoring and associated record keeping and reporting. Required monitoring revealed no deviations from permit requirements.)
- ☐ We failed to conduct required monitoring/record keeping/reporting as explained on the attached form.
- ☐ We identified deviations as a result of required monitoring:
- ☐ Deviations were addressed in CEM Excess Emission Report(s) dated: _____
- ☐ Deviations were addressed in Fuel Report(s) dated: _____
- ☐ Deviations were addressed in MACT Report(s) dated: _____
- ☐ Deviations due to malfunctions were addressed in letters dated: _____
- ☐ Deviations were addressed in other report(s) dated: _____
- Type of report: _____
- ☐ Deviations were previously described in Prompt Deviation Reports dated:
- _____
- _____
- ☐ “Other” deviations, which were not previously reported, are described in the attachment.

Certification: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(Signature)

(Name & Title)

FAILURE TO MONITOR, KEEP RECORDS OR REPORT **Submitted as Part of Semi-Annual Monitoring Report**

Registration No. _____

Page _____ of _____

[illegible]

Annual Compliance Certification

Registration No. _____

Page _____ of _____

Cond. No.	TERMS & CONDITIONS CONTAINED IN THE PERMIT <i>(list in order)</i>	MEANS OF DETERMINING COMPLIANCE STATUS	TYPE OF DATA THE MEANS PROVIDES	PERIODS OF NON- COMPLIANCE
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	<input type="checkbox"/> Yes <input type="checkbox"/> No

“OTHER” DEVIATIONS
Submitted as Part of Semi-Annual Monitoring Report

Registration No. _____

Page _____ **of** _____

Condition No. & Description of Requirement	Description of Deviation (time, emission unit, description of event, cause)	Description of Associated Monitoring Requirement	Description of corrective measures taken (<i>demonstrating a timely & appropriate response</i>)

(Report deviations which may have caused excess emissions for more than one hour on a deviation report form, not here.)